Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. 10. canceled.
- 11. A plant nutrient reduction system comprising:
- a microbially enhanced inorganic fertilizer composition for application to a plant comprising,

a nitrogen:phosphorus: potassium (N:P:K) ratio wherein nitrogen is from 0 to about 32, phosphorus from 0 to about 13, and potassium from 0 to about 12, wherein at least one of nitrogen, phosphorus or potassium is at least about 2, and

at least about 1 x 10⁵ microorganisms per gram of fertilizer composition, wherein the application to a plant of the microbially enhanced inorganic fertilizer composition in an amount at least 25% less by weight than the application to a plant of a non-microbially enhanced inorganic fertilizer composition, results in comparable plant growth or yield in an equivalent time period.

- 12. The system of Claim 11 wherein the N:P:K ratio comprises nitrogen from about 6 to about 32, phosphorus from about 4 to about 13, and potassium from about 3 to about 12.
- 13. The system of Claim 11 wherein the microorganisms are present from at least about 1×10^5 to about 5×10^7 microorganisms per gram of fertilizer composition.
- 14. The system of Claim 13 wherein the microorganisms are selected from the group consisting of bacteria, fungi, viruses or mixtures thereof.

15. A plant nutrient reduction system comprising:

a microbially enhanced inorganic fertilizer composition for application to a plant comprising,

a nitrogen:phosphorus: potassium (N:P:K) ratio wherein nitrogen is from 0 to about 32, phosphorus from 0 to about 13, and potassium from 0 to about 12, wherein at least one of nitrogen, phosphorus or potassium is at least about 2, and

at least about 1 x 10⁵ microorganisms per gram of fertilizer composition, wherein the application to a plant of the microbially enhanced inorganic fertilizer composition in an amount at least 25% less by weight than the application to a plant of a non-microbially enhanced inorganic fertilizer composition, results in comparable levels of nitrogen, phosphorus, or potassium in the plant.

- 16. The system of Claim 15 wherein the N:P:K ratio comprises nitrogen from about 6 to about 32, phosphorus from about 4 to about 13, and potassium from about 3 to about 12.
- 17. The system of Claim 15 wherein the microorganisms are present from at least about 1×10^5 to about 5×10^7 microorganisms per gram of fertilizer composition.
- 18. The system of Claim 17 wherein the microorganisms are selected from the group consisting of bacteria, fungi, viruses or mixtures thereof.
- 19. The system of Claim 15 wherein the application of the microbially enhanced inorganic fertilizer composition in an amount at least 25% less by weight than the application to a plant of a non-microbially enhanced inorganic fertilizer composition further results in comparable plant growth or yield in an equivalent time period.

20. A plant nutrient reduction system comprising:

a microbially enhanced inorganic fertilizer composition for application to a plant comprising,

a nitrogen:phosphorus: potassium (N:P:K) ratio wherein nitrogen is from 0 to

about 32, phosphorus from 0 to about 13, and potassium from 0 to about 12, wherein at least one of nitrogen, phosphorus or potassium is at least about 2, and

at least about 1 x 10⁵ microorganisms per gram of fertilizer composition, wherein the application to a plant of the microbially enhanced inorganic fertilizer composition in an amount at least 25% less by weight than the application to a plant of a non-microbially enhanced inorganic fertilizer composition, results in residual levels of nitrogen, phosphorus, or potassium in the soil substantially less than that which results from the application to a plant of a non-microbially enhanced fertilizer composition.

- 21. The system of Claim 20 wherein the N:P:K ratio comprises nitrogen from about 6 to about 32, phosphorus from about 4 to about 13, and potassium from about 3 to about 12.
- 22. The system of Claim 20 wherein the microorganisms are present from at least about 1×10^5 to about 5×10^7 microorganisms per gram of fertilizer composition.
- 23. The system of Claim 22 wherein the microorganisms are selected from the group consisting of bacteria, fungi, viruses or mixtures thereof.
- 24. The system of Claim 20 wherein the application of the microbially enhanced inorganic fertilizer composition in an amount at least 25% less by weight than the application to a plant of a non-microbially enhanced inorganic fertilizer composition further results in comparable plant growth or yield in an equivalent time period.
- 25. The system of Claim 20 wherein the application of the microbially enhanced inorganic fertilizer composition in an amount at least 25% less by weight than the application to a plant of a non-microbially enhanced inorganic fertilizer composition results in comparable levels of nitrogen, phosphorus, or potassium in the plant.